

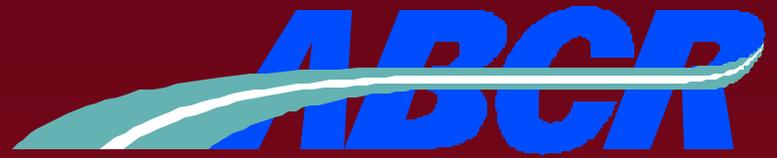
**International Workshop**  
**on**  
**ITS Benefits**

**Gil F. Guedes - Tech. Coordinator**  
**Turin, Italy, Nov 9, 2000**



**ASSOCIAÇÃO  
BRASILEIRA DE  
CONCESSIONÁRIAS DE  
RODOVIAS**

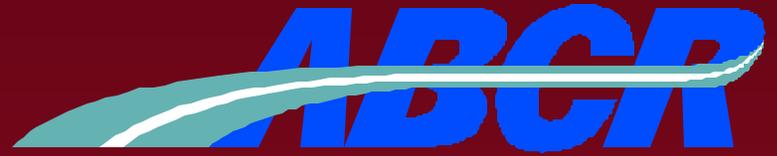
**BRAZILIAN ASSOCIATION  
OF HIGHWAY CONCESSIONAIRES**



## BRAZILIAN HIGHWAY CONCESSION PROGRAM (Km)

October 2000

	CONCEDED	2001 / 2002	2003 / 2004	TOTAL	Concessionaires
Federal Government	1.480	2.610	2.228	6.318	6
Rio Grande do Sul	2.266	199		2.809	8
Santa Catarina	518			518	2
Paraná	2.344			2.344	6
São Paulo	3.517		1.816	5.333	12
Rio de Janeiro	85	165		350	2
Espírito Santo	68			68	1
Minas Gerais	73	347	420	- // -	
Bahia	217			217	1
Ceará	1			1	1
	<b>10.496</b>	<b>3.047</b>	<b>4.391</b>	<b>17.934</b>	<b>39</b>
	(6,560 Mi)	(1,904 Mi)	(2,744 Mi)	(11,208 Mi)	



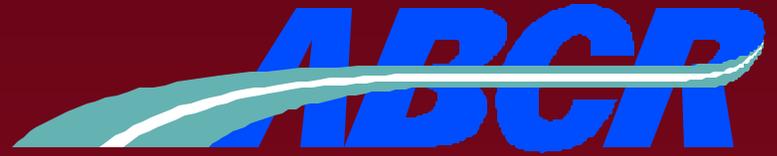
**BRAZILIAN HIGHWAY CONCESSION PROGRAM**

# **INVESTMENTS**

**Already made: US\$ 2 Billion**

**Committed: US\$ 6 Billion**

**Future: US\$ 10 Billion**



**What are the major transportation investment decisions and trade-offs confronting Brazil?**

**Nation-wide:**

**1) Size of the Country x Lack of financial resources**

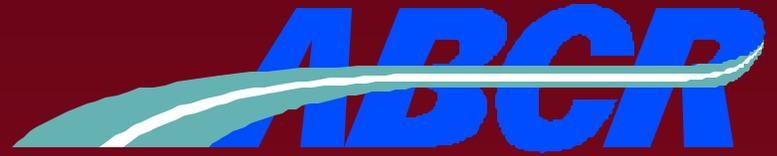
**Brazil: 160,000 km of paved roads**

**USA: 3,600,000 km of paved roads**

**2) Assure that the limited resources are well spent**

**Good planning**

**Strict control of expenditures**



**What are the major transportation investment decisions and trade-offs confronting Brazil?**

**In large cities:**

**Good planning**

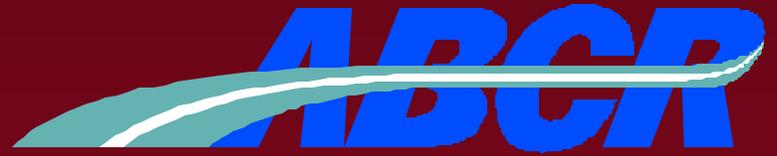
**Strict control of expenditures**

**Improvement and coordination of mass transportation**

**The Great São Paulo: 39 municipalities - 16,000,000 inhabitants**

**10% of the population of the Country**

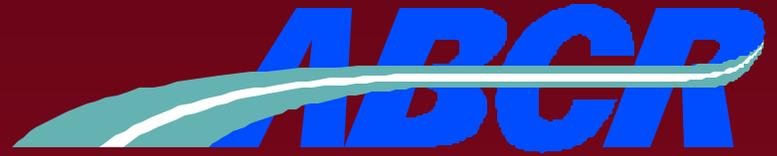
**in less than 0.001th of its area**



## BRAZILIAN HIGHWAY CONCESSION PROGRAM

### What do we have in terms of ITS applications?

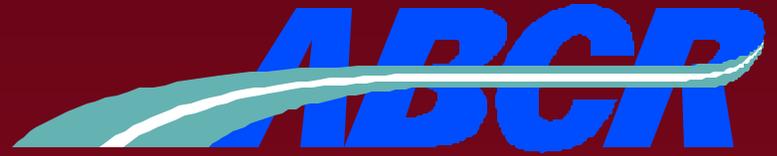
- **Automated Toll Collection**
  - ETC: 4 highways (14 more in process of installation)
  - Smart Cards: 3 highways (one more in process of installation)
- **Traffic Control Centers in 34 highways**
- **73 variable message signs**
- **1,400 call boxes**
- **1,700 km of fiber optic cables**
- **150 CCTV cameras**
- **24 highways have on-time traffic information in the Internet**
- **15 highways have meteorological stations**
- **All tunnels are ventilated and have emission control sensors**



## BRAZILIAN HIGHWAY CONCESSION PROGRAM

### Road Assistance and Traveler Services

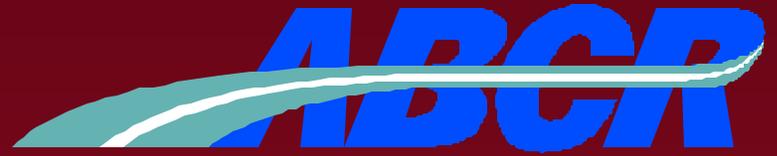
- 58 User's Service Centers
- In the year of 1999:
  - 365,000 calls for mechanical assistance
  - 21,000 ambulance calls
  - 3,000 fires extinguished
  - 6,000 strayed animals removed



**BRAZILIAN HIGHWAY CONCESSION PROGRAM**

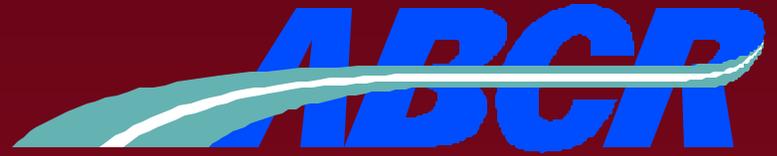
**What are we planning in terms  
of ITS applications?**

- Weight in motion**
- Commercial Vehicle Operation**



## **What does Brazil need in terms of Intelligent Transportation Systems in order to make adequate decisions?**

- 1) Time (6 months to one year) to stabilize the installations already made or presently in course**
- 2) Training and information - both technical and financial - to implement new applications**



## BRAZILIAN HIGHWAY CONCESSION PROGRAM

### **What we learned:**

**People are not against paying tolls.  
They just want to be sure that they  
are getting their money back.**



**ABCRC's homepage**

**[www.abcr.org.br](http://www.abcr.org.br)**

**THANK YOU !**